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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619.420	07/16/2003	Nandu Gopalakrishnan	29250-000765/US	7340
7590 11/21/2007			EXAMINER .	
HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 8910			LEE, BETTY E	
Reston, VA 20195			ART UNIT	PAPER NUMBER
			2619	
	•			
			MAIL DATE	DELIVERY MODE
			11/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
a .	10/619,420	GOPALAKRISHNAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Betty Lee	2619				
The MAILING DATE of this communica Period for Reply		ith the correspondence address				
,	DEDLY IS SET TO EVOIDE AM	IONTH(S) OR THIRTY (30) DAVS				
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAII - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNION CFR 1.136(a). In no event, however, may a scation. bry period will apply and will expire SIX (6) MON, by statute, cause the application to become AB	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed of	on <u>04 September 2007</u> .					
2a) This action is FINAL . 2b)	This action is FINAL . 2b) This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice	under Ex parte Quayle, 1935 C.D	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-30 is/are pending in the app	lication.					
4a) Of the above claim(s) is/are	withdrawn from consideration.	·				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
7) Claim(s) 3-30 is/are objected to.	u and las also also a secular mand					
8) Claim(s) are subject to restrictio	n and/or election requirement.	•				
Application Papers						
9) ☐ The specification is objected to by the E	Examiner.					
10)⊠ The drawing(s) filed on 16 July 2003 is/	'are: a)⊠ accepted or b)⊡ objec	cted to by the Examiner.				
Applicant may not request that any objection	= ' '					
Replacement drawing sheet(s) including the	,					
11) The oath or declaration is objected to by	y the Examiner. Note the attached	d Office Action of form P1O-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for a) ☐ All b) ☐ Some * c) ☐ None of:	foreign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
1. Certified copies of the priority do	cuments have been received.					
2. Certified copies of the priority do		· · · · · · · · · · · · · · · · · · ·				
3. Copies of the certified copies of the	•	received in this National Stage				
application from the International		was a live of				
* See the attached detailed Office action for	or a list of the certilled copies not	received.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO)		Summary (PTO-413) s)/Mail Date				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		nformal Patent Application				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Moon et al. (US 2003/0097629).

Regarding claim 1, Moon teaches determining a modulation and coding scheme and corresponding resource allocation (see paragraph 7 lines 1-4) as a function of at least one of a determined past, a determinable current, and a future statistic of at least one of channel conditions (see paragraph 7 lines 7-10; The node predicts the channel conditions.) and resource allocation; and transmitting a coded modulated version of the packet in the communication system according to the MCS (see paragraph 7 lines 1-10).

Regarding claim 2, Moon teaches the modulation and coding scheme and corresponding resource allocation is determined as a function of at least two of the determined past (see paragraph 70 line 3; The modulation technique used at the initial transmission corresponds to the past statistic), the determinable current (see paragraph 71 lines 3-8), and the future statistic of at least one of channel conditions and resource allocation.

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Allowable Subject Matter

2. Claims 3-30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

3. Applicant's arguments filed on September 7, 2007 have been fully considered but they are not persuasive.

With respect to Applicant's arguments regarding claim 1, Applicant submits that Moon fails to disclose determining "resource allocation" as recited in claim 1. Examiner respectfully disagrees.

Moon teaches the modulation and coding scheme and corresponding resource allocation as a function of at least one of a determined past, a determinable current, and a future statistic of at least one of channel conditions and resource allocation (see paragraph 7 lines 1-10). The modulation and coding scheme changes the size of the data being transmitted (see paragraph 21). The size of data being transmitted determines resource allocation, in that the size of data affects the amount of bandwidth used. Thus, Moon does teach resource allocation as a function of at least one of a determined past, a determinable current, and a future statistic of at least one of channel conditions and resource allocation.

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Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure

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relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betty Lee whose telephone number is (571) 270-1412. The examiner can normally be reached on Monday-Thursday 9-5 EST and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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SUPERVISORY PATENT EXAMINER

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